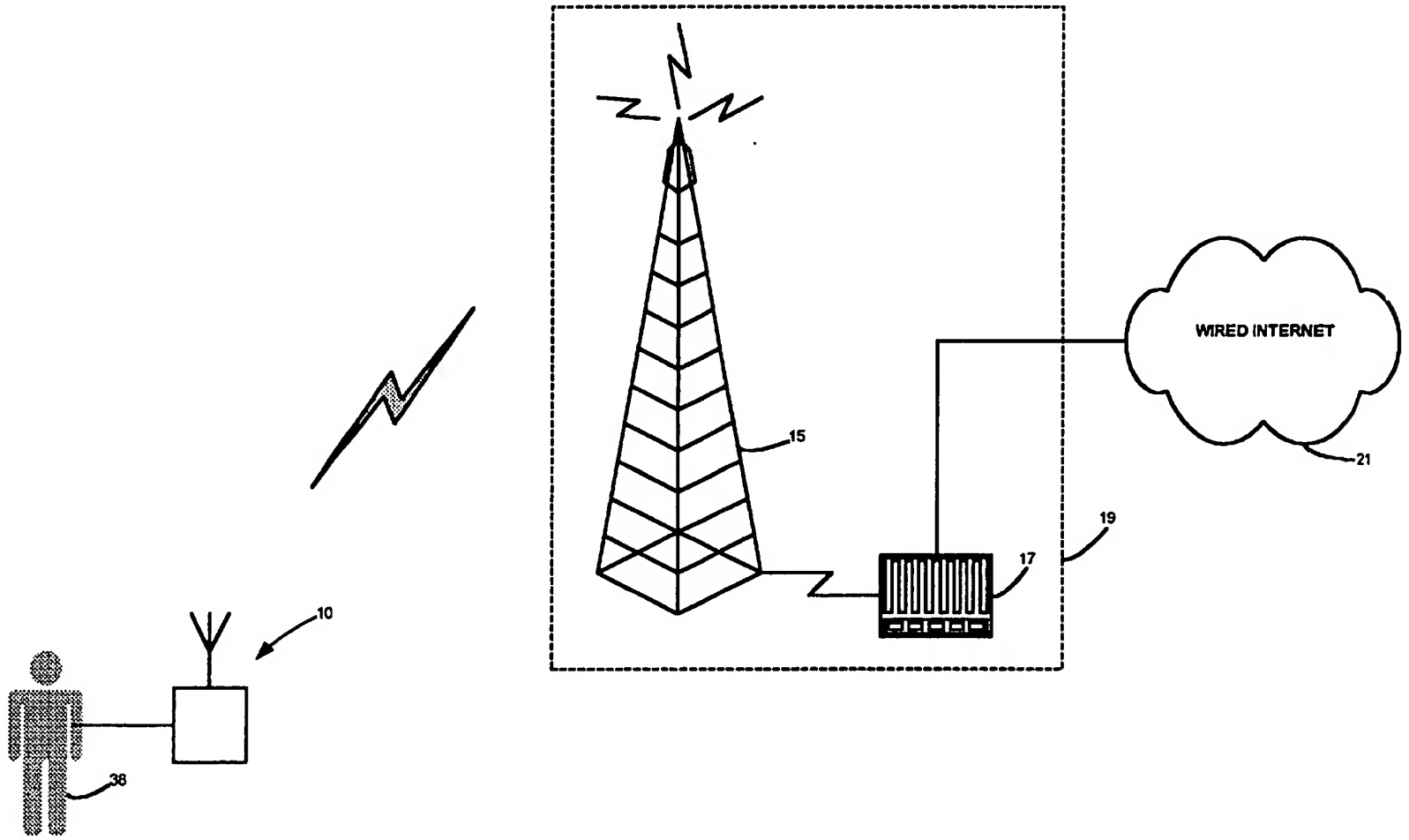


FIG. 1

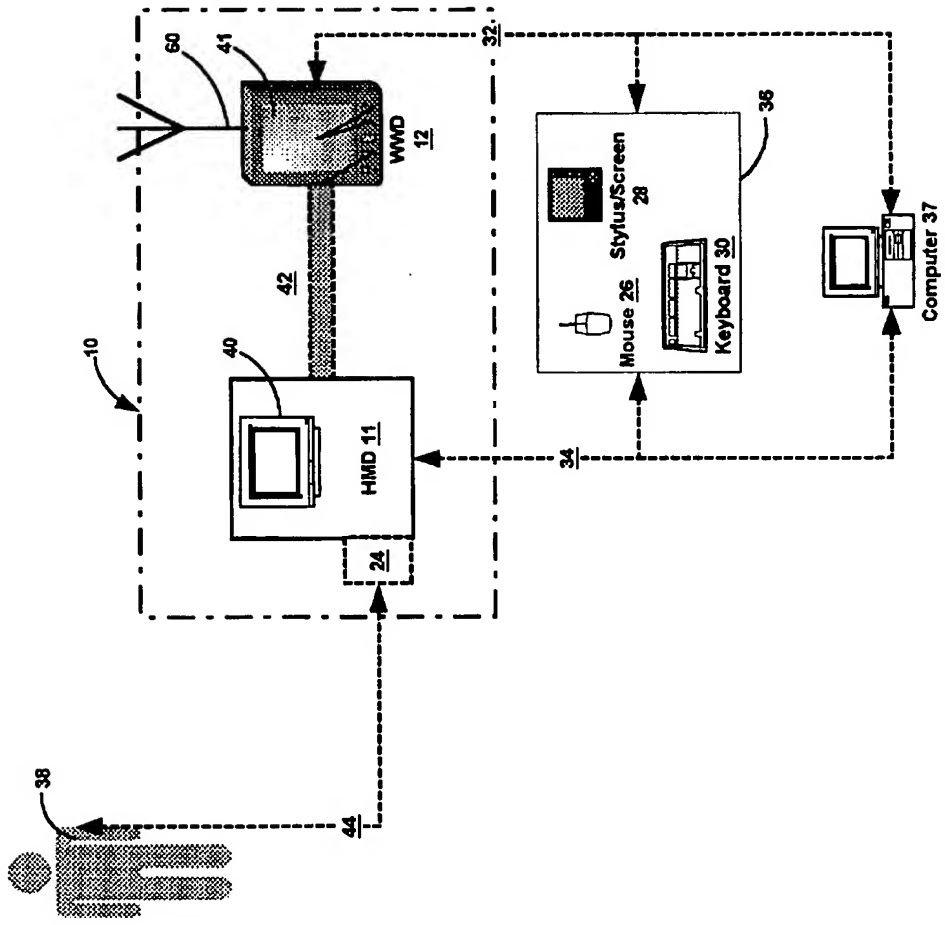

10
60
41
WMD
12
42
40
HMD 11
24
32
36
Stylus/Screen
28
Mouse 26
Keyboard 30
Computer 37
34
38
44

FIG. 2

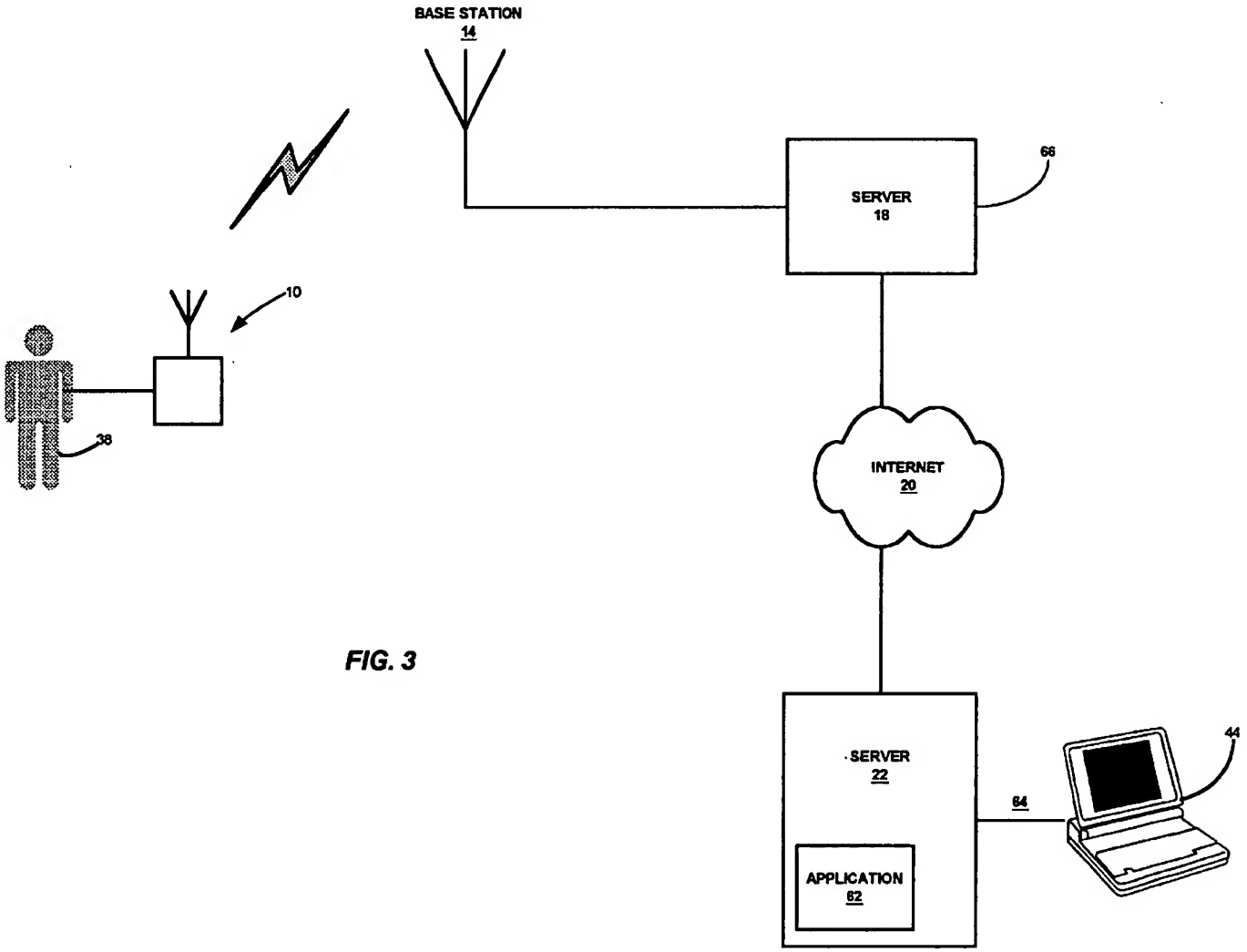

BASE STATION
14
SERVER
18
66
10
38
INTERNET
20
SERVER
22
64
44
APPLICATION
62

FIG. 3

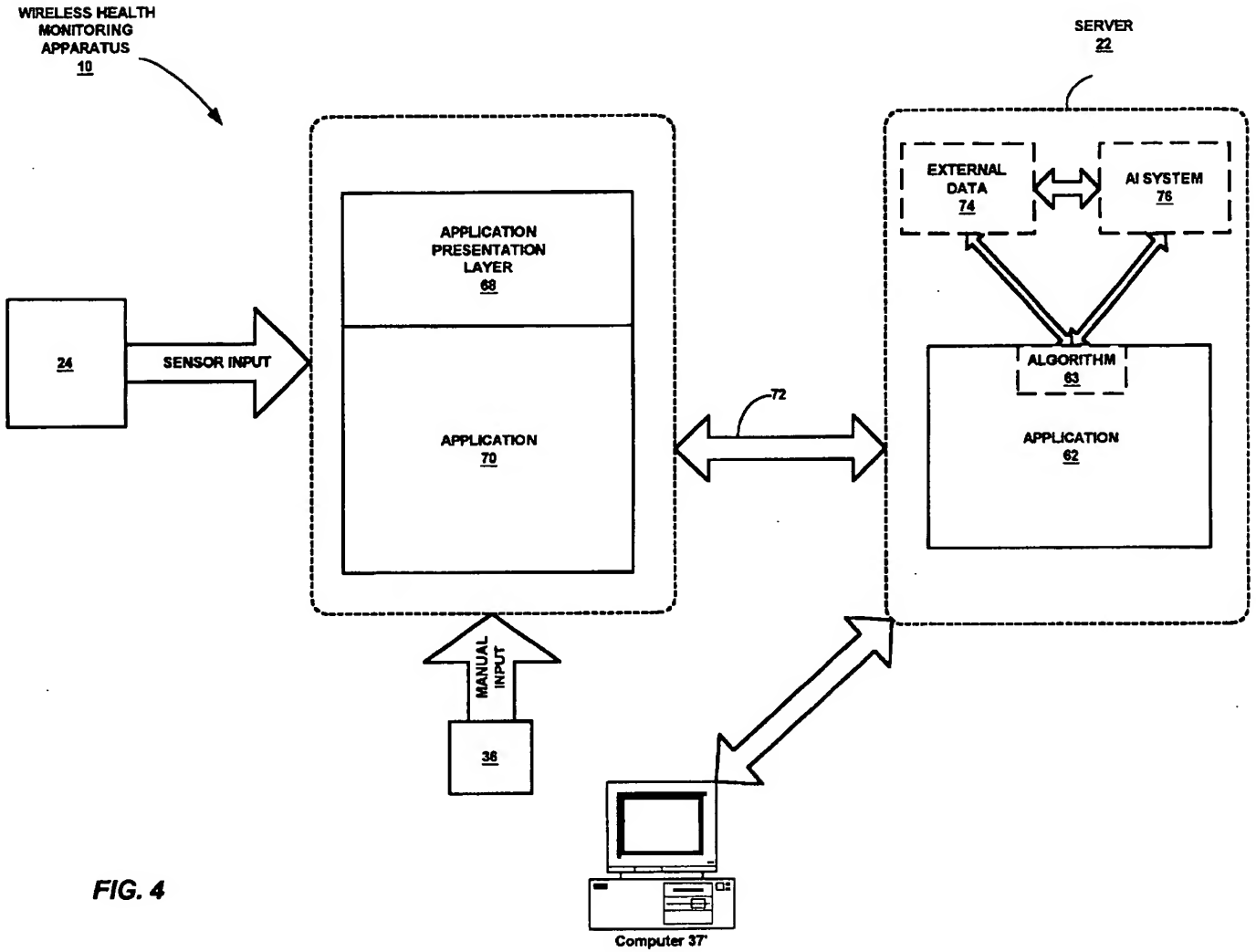

WIRELESS HEALTH MONITORING APPARATUS
10
SERVER
22
APPLICATION PRESENTATION LAYER
68
APPLICATION
70
24
SENSOR INPUT
72
EXTERNAL DATA
74
AI SYSTEM
76
ALGORITHM
63
APPLICATION
62
MANUAL INPUT
36
Computer 37'

FIG. 4

FIG. 5

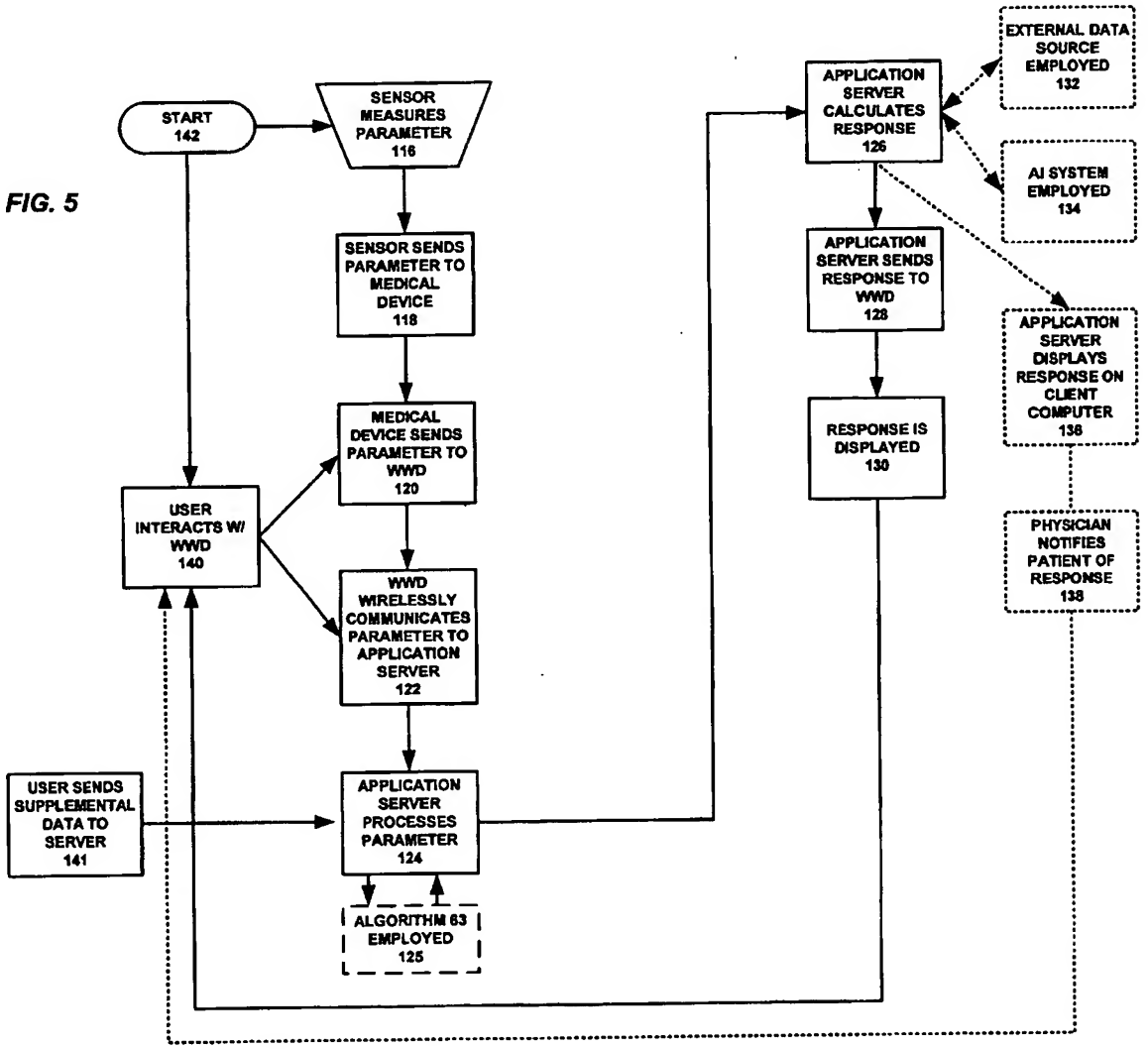
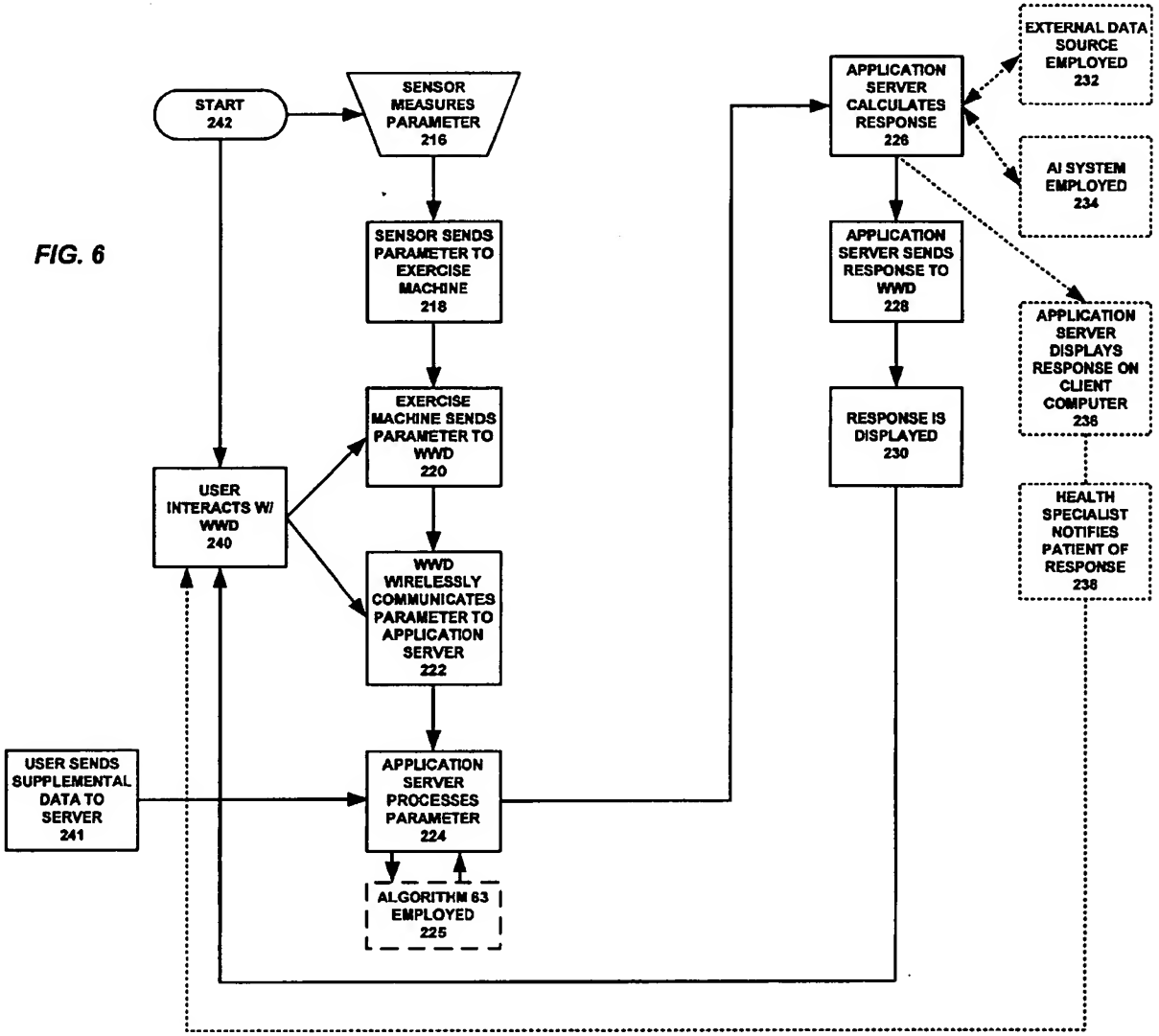

START
142
SENSOR MEASURES PARAMETER
116
SENSOR SENDS PARAMETER TO MEDICAL DEVICE
118
MEDICAL DEVICE SENDS PARAMETER TO WWD
120
USER INTERACTS W/ WWD
140
WWD WIRELESSLY COMMUNICATES PARAMETER TO APPLICATION SERVER
122
USER SENDS SUPPLEMENTAL DATA TO SERVER
141
APPLICATION SERVER PROCESSES PARAMETER
124
ALGORITHM 63 EMPLOYED
125
APPLICATION SERVER CALCULATES RESPONSE
126
APPLICATION SERVER SENDS RESPONSE TO WWD
128
RESPONSE IS DISPLAYED
130
EXTERNAL DATA SOURCE EMPLOYED
132
AI SYSTEM EMPLOYED
134
APPLICATION SERVER DISPLAYS RESPONSE ON CLIENT COMPUTER
136
PHYSICIAN NOTIFIES PATIENT OF RESPONSE
138

FIG. 6


START
242
SENSOR MEASURES PARAMETER
216
SENSOR SENDS PARAMETER TO EXERCISE MACHINE
218
EXERCISE MACHINE SENDS PARAMETER TO WWD
220
USER INTERACTS W/ WWD
240
WWD WIRELESSLY COMMUNICATES PARAMETER TO APPLICATION SERVER
222
USER SENDS SUPPLEMENTAL DATA TO SERVER
241
APPLICATION SERVER PROCESSES PARAMETER
224
ALGORITHM 63 EMPLOYED
225
APPLICATION SERVER CALCULATES RESPONSE
226
APPLICATION SERVER SENDS RESPONSE TO WWD
228
RESPONSE IS DISPLAYED
230
EXTERNAL DATA SOURCE EMPLOYED
232
AI SYSTEM EMPLOYED
234
APPLICATION SERVER DISPLAYS RESPONSE ON CLIENT COMPUTER
236
HEALTH SPECIALIST NOTIFIES PATIENT OF RESPONSE
238

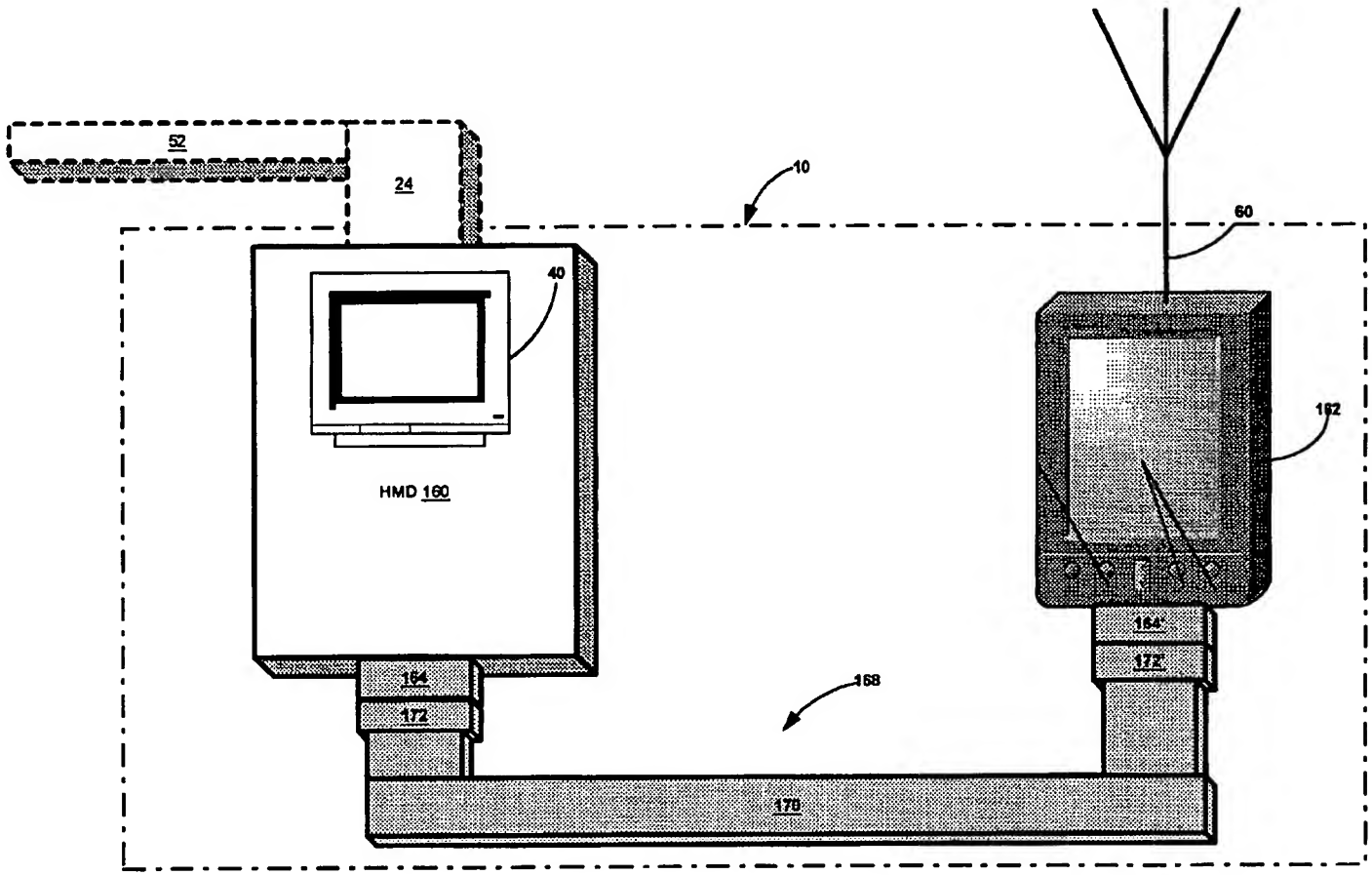


FIG. 7

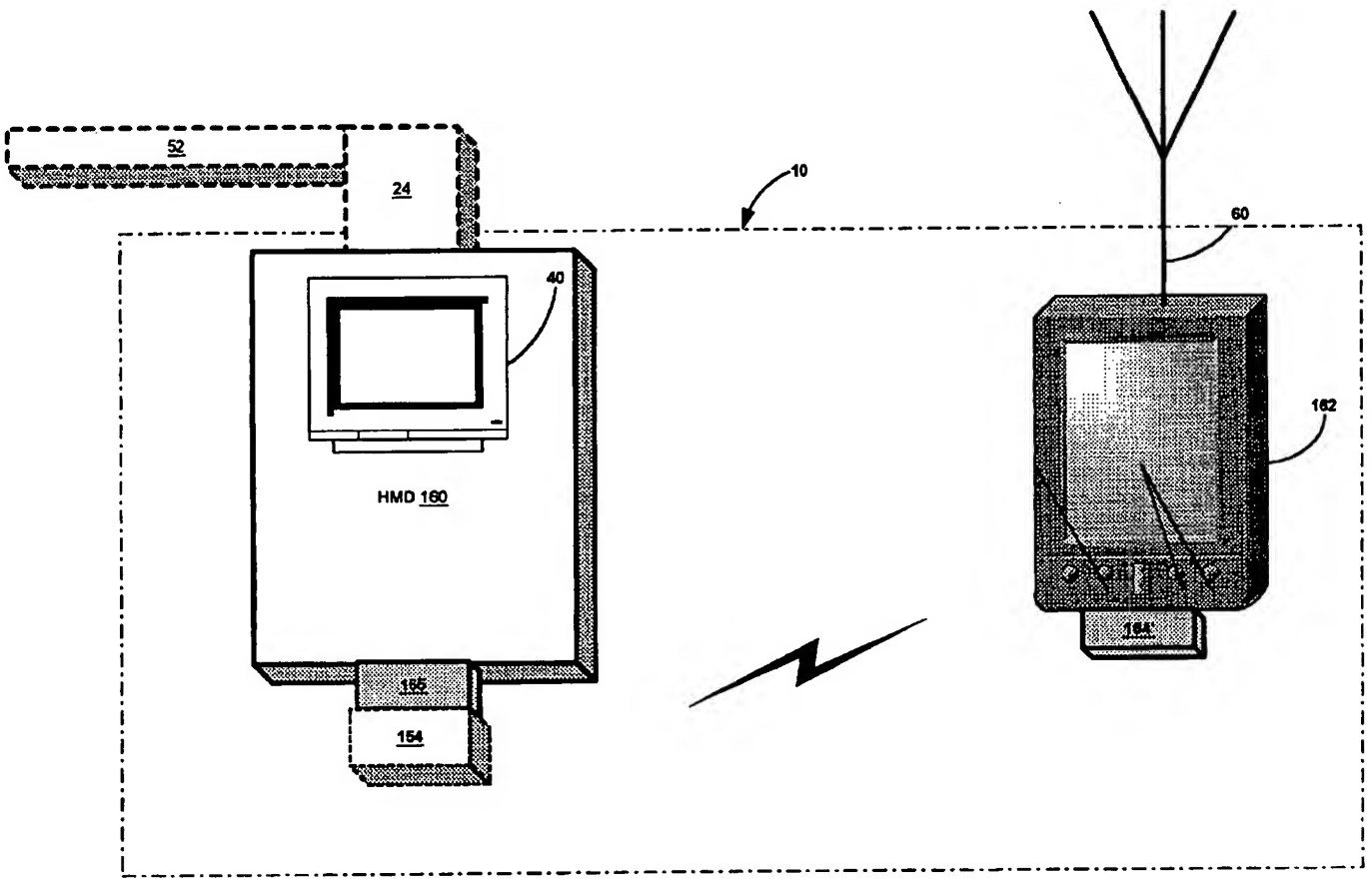


FIG. 8

FIG. 9

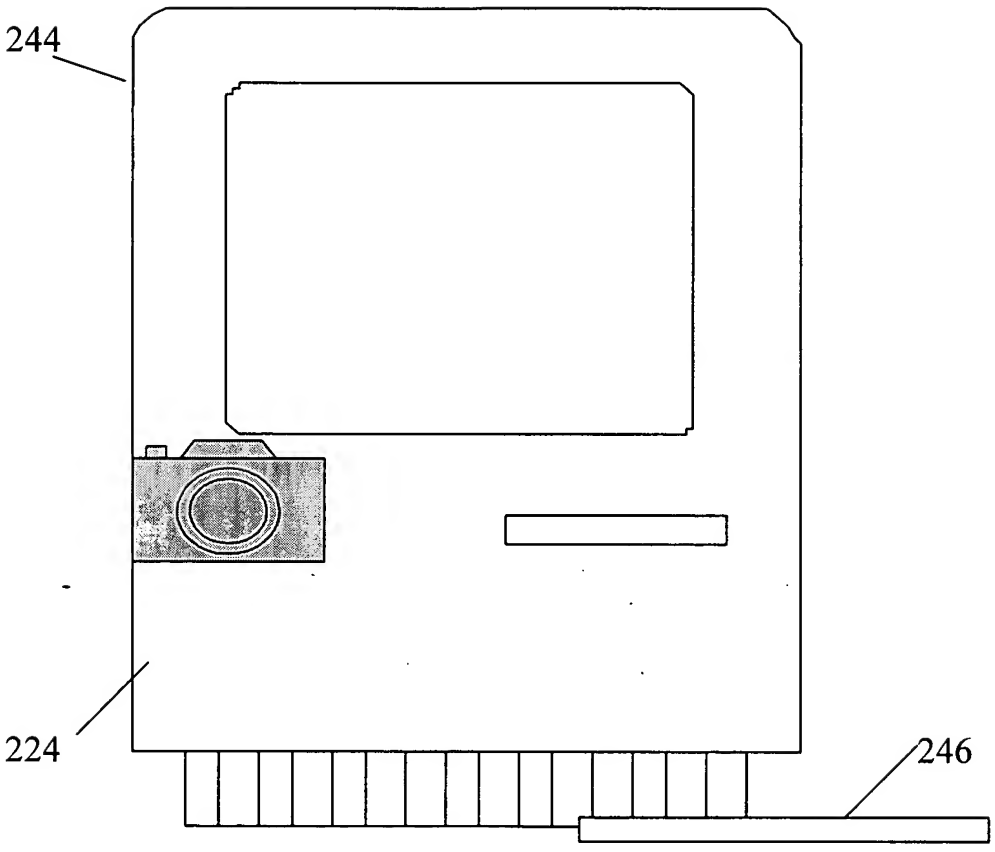


FIG. 10

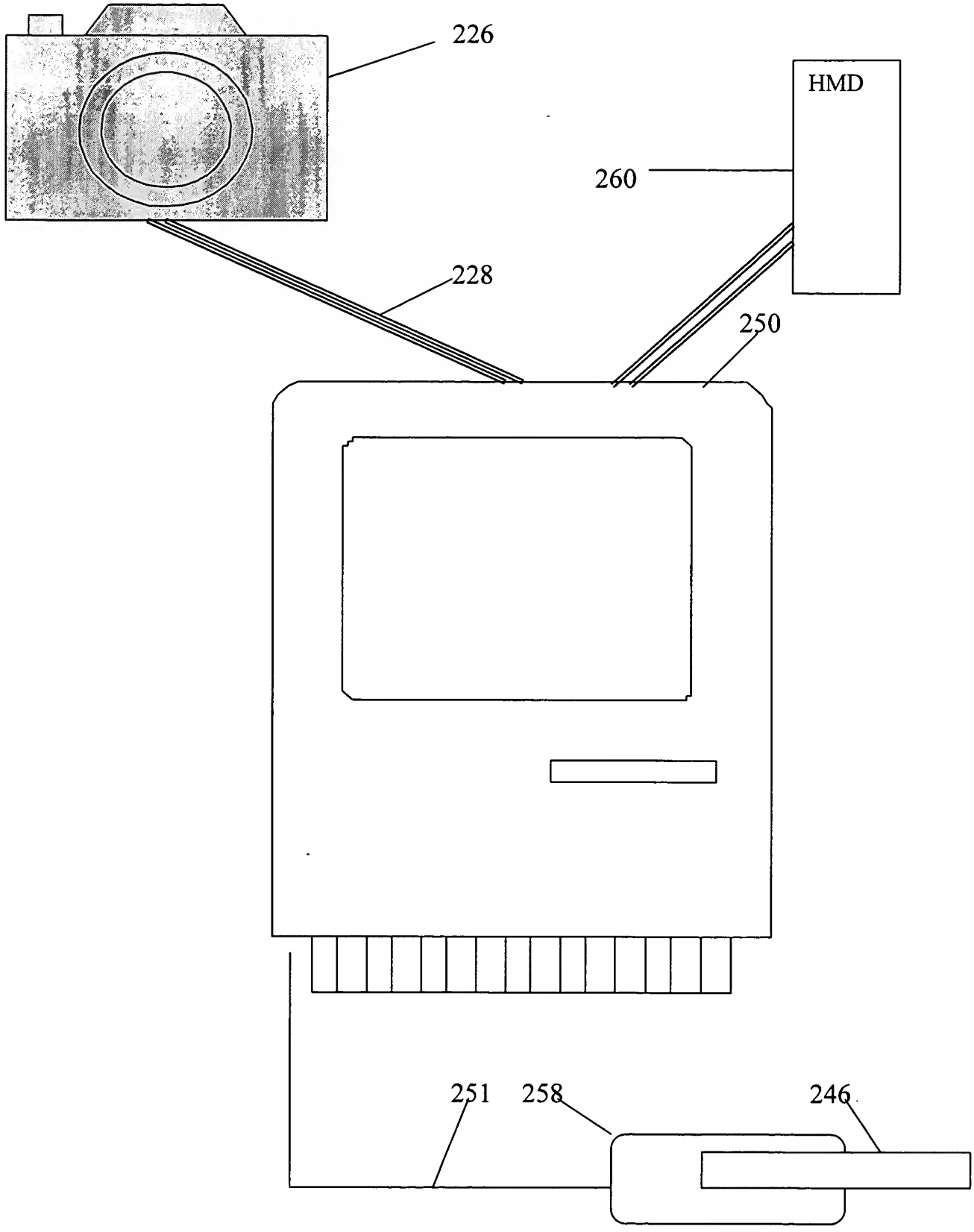


FIG. 11

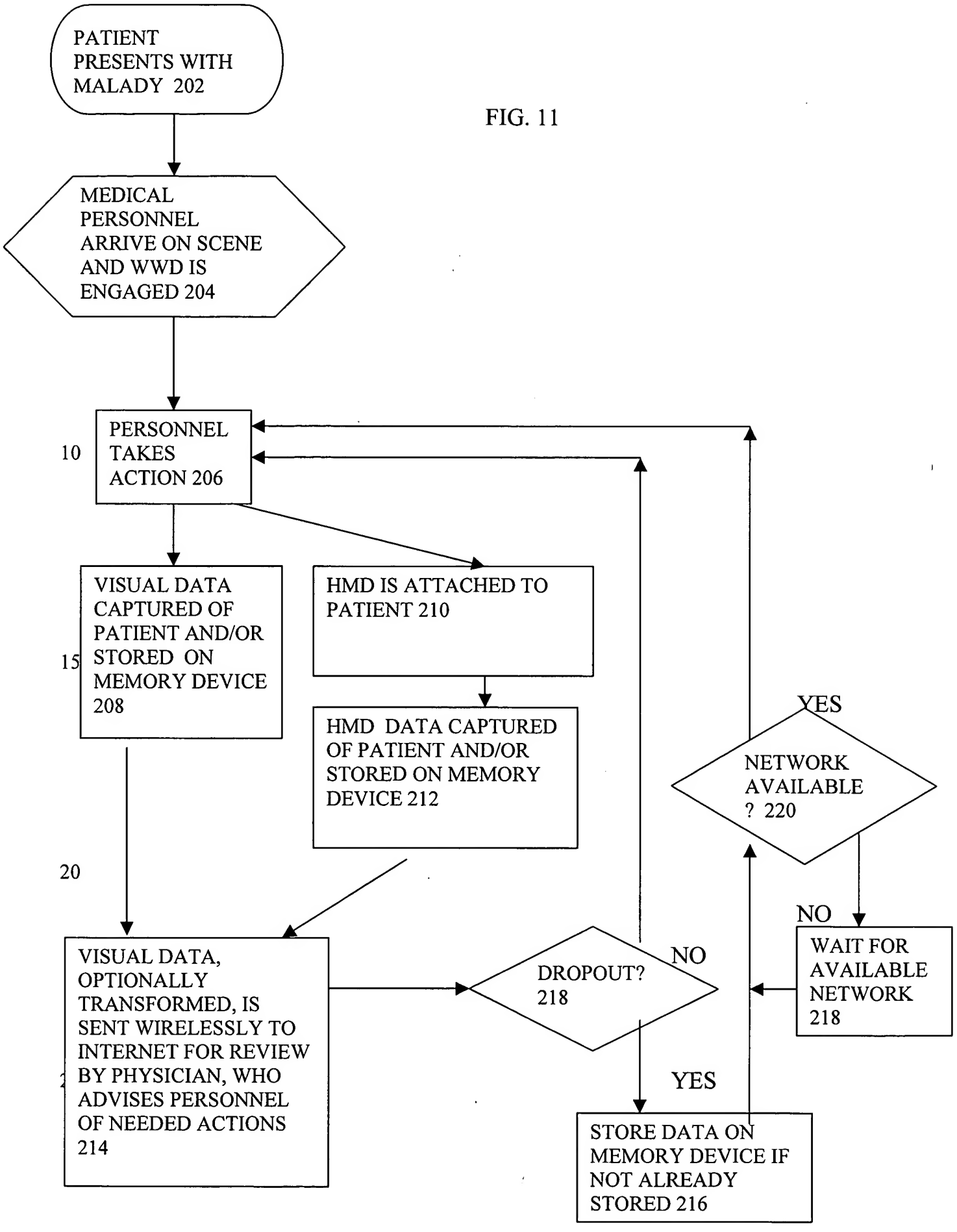
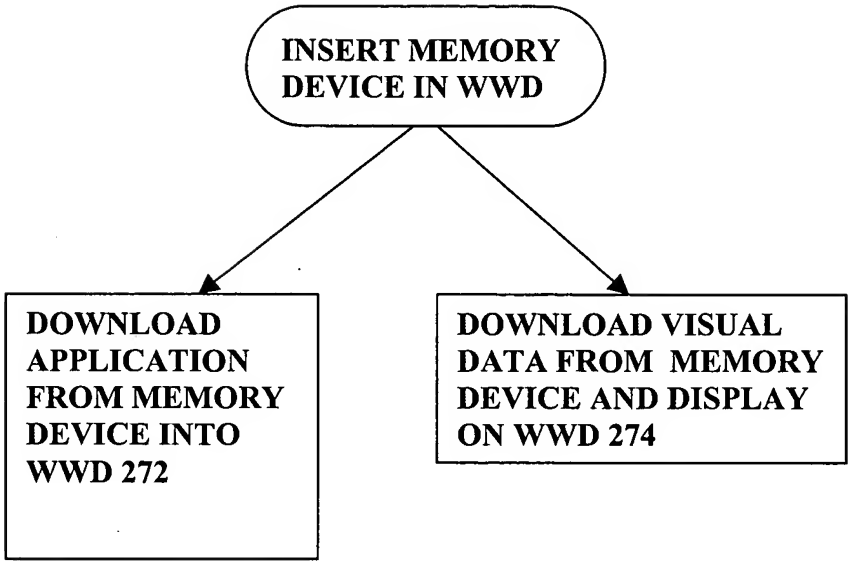

PATIENT PRESENTS WITH MALADY 202
MEDICAL PERSONNEL ARRIVE ON SCENE AND WWD IS ENGAGED 204
PERSONNEL TAKES ACTION 206
VISUAL DATA CAPTURED OF PATIENT AND/OR STORED ON MEMORY DEVICE 208
HMD IS ATTACHED TO PATIENT 210
HMD DATA CAPTURED OF PATIENT AND/OR STORED ON MEMORY DEVICE 212
VISUAL DATA, OPTIONALLY TRANSFORMED, IS SENT WIRELESSLY TO INTERNET FOR REVIEW BY PHYSICIAN, WHO ADVISES PERSONNEL OF NEEDED ACTIONS 214
DROPOUT? 218
NO
YES
STORE DATA ON MEMORY DEVICE IF NOT ALREADY STORED 216
NETWORK AVAILABLE ? 220
YES
NO
WAIT FOR AVAILABLE NETWORK 218

FIG. 12


INSERT MEMORY DEVICE IN WWD
DOWNLOAD APPLICATION FROM MEMORY DEVICE INTO WWD 272
DOWNLOAD VISUAL DATA FROM MEMORY DEVICE AND DISPLAY ON WWD 274